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YAMASHIRO TAKASHI(54) **MULTIPLE ADDRESS COMMUNICATION
SYSTEM IN MULTI-DISTRIBUTION
CONNECTION NETWORK**

(57) Abstract:

PROBLEM TO BE SOLVED: To simply realize multi-address communication in a transmission system being the polling/selecting system in which a master station and plural slave stations are connected through multi-branching.

SOLUTION: In this system in a multi-branch network, plural slave stations 3 with different station addresses are connected to a master station 1 by using one or multi-stages of multi-branch connectors 2, and the multi-address communication is conducted from the master station 1 to the slave stations 3 by sending the multi-address communication frame from the slave stations 3 to the master station 1 and sending the multi-address communication reply frame from the slave stations 3 to the master station 1. When

the multi-address communication frame sent from the master station 1 is in multi-address communication to the slave station 3 via the multi-branch connection device 2, the multi-address communication address designed separately from the station address allocated to each slave station 3 is added to the multi-address communication frame from the master station 1.

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